

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A liquid crystal display comprising:

a first substrate;

a second substrate;

a liquid crystal retained between said first substrate and said second substrate;

at least one first conductive column formed on said first substrate, said first conductive column comprising a ground column made of an elastic resin and a first electrode which covers said ground column;

at least one conductive column contact portion electrically connected to said first conductive column by direct contact of said first electrode, and formed above said second substrate; and

a seal which bonds said first substrate and said second substrate by contacting at least one part of said first conductive column except at a part of said first conductive column which connects said conductive column contact portion,

wherein said at least one first conductive column is surrounded by said seal, and

wherein said seal shrinks when a sealing material is set.

2. (canceled).

3. (original): The liquid crystal display according to claim 1, wherein said at least one conductive column contact portion is formed at an input terminal which inputs an external signal, and wherein said input terminal is formed on said second substrate.

4. (previously presented): The liquid crystal display according to claim 1,
wherein a surface of said second substrate facing said first substrate comprises:
a display area, wherein said display area comprises a plurality of pixel electrodes
modulating a state of said liquid crystal;
an input terminal which inputs an external signal; and
a lead wiring extending from at least one of a plurality of accumulating capacitance
lines to an outside of said display area and electrically connected to said input terminal,
wherein said conductive column contact portion is formed in said lead wiring.

5. (original): The liquid crystal display according to claim 1,
wherein said first conductive column is reduced in width from a surface of said first
substrate toward said conductive column contact portion.

6. (original): The liquid crystal display according to claim 1,
wherein a plurality of said first conductive columns contact said conductive column
contact portion.

7. (canceled).

8. (original): The liquid crystal display according to claim 4,
wherein a plurality of said first conductive column contact portions contact said lead
wiring.

9. (original): The liquid crystal display according to claim 1,
wherein at least one spacer is formed in said seal.

10. (original): The liquid crystal display according to claim 1,
wherein a distance between said first substrate and said second substrate is maintained
substantially constant.

11. (original): The liquid crystal display according to claim 1,
wherein a second conductive column is formed on said conductive column contact
portion of said second substrate, wherein said second conductive column is connected
electrically to said first conductive column.

12. (original): The liquid crystal display according to claim 1,
wherein a circumference of said first conductive column from a cross section
perpendicular to a surface of said first substrate has an arched shape.

13. (original): The liquid crystal display according to claim 11,
wherein a circumference of said second conductive column from a cross section
perpendicular to a surface of said first substrate has an arched shape.

14. (previously presented): The liquid crystal display according to claim 11,
wherein said second conductive column is connected electrically to said first conductive
column at a plurality of locations.

15. (original): The liquid crystal display according to claim 4,
wherein a second conductive column is formed on said conductive column contact
portion of said second substrate, and wherein said second conductive column is connected
electrically to said first conductive column.

16. (original): The liquid crystal display according to claim 15,
wherein a lengthwise direction of said first conductive column of said first substrate and
a lengthwise direction of said second conductive column of said second substrate coincide with a
direction of rubbing of an alignment film formed on said first electrode on said first substrate or
each of said first electrode on said first substrate and said pixel electrodes on said second
substrate.

17. (currently amended): A liquid crystal display comprising:
a first substrate;

a second substrate;

a liquid crystal retained between said first substrate and said second substrate;

at least one first conductive column formed on said first substrate, said first conductive column comprising a ground column made of an elastic resin and a first electrode which covers said ground column;

at least one conductive column contact portion electrically connected to said first conductive column by direct contact of said first electrode, and formed above said second substrate; and

means for making the electrical connection between said first conductive column and said conductive column contact portion stable, said means contacting with at least one part of said first conductive column,

wherein said at least one first conductive column is surrounded by said means for making the electrical connection between said first conductive column and said conductive column contact portion stable, and

wherein said means for making the electrical connection between said first conductive column and said conductive column contact portion stable shrinks when a sealing material is set.

18. (currently amended): A method for manufacturing a liquid crystal display comprising:

providing a first substrate;

forming a ground column, from an elastic resin, on said first substrate, and covering said ground column with a first electrode so as to form at least one first conductive column;

providing a second substrate;

forming at least one conductive column contact portion on said second substrate, wherein said conductive column portion is electrically connected to said first conductive column by direct contact of said first electrode; and

forming a seal bonding said first substrate and said second substrate,

wherein said seal is cured while adhering to a part of said first conductive column other than a part which contacts said conductive column contact portion, while said first conductive column of said first substrate is maintained in contact with said conductive column contact portion of said second substrate,

wherein said at least one first conductive column is surrounded by said seal, and

wherein said seal shrinks when a sealing material is set.

19. (canceled).

20. (previously presented): The method for manufacturing a liquid crystal display according to claim 18, further comprising:

forming a display area on said second substrate;

forming a plurality of pixel electrodes modulating a state of said liquid crystal on said second substrate;

forming an input terminal which inputs an external signal on said second substrate; and

forming a lead wiring extending from at least one of a plurality of accumulating capacitance lines to an outside of said display area electrically connected to said input terminal.

21. (original): The method for manufacturing a liquid crystal display according to claim 20, further comprising:

forming a second conductive column on said conductive column contact portion of said second substrate.

22. (original): The method for manufacturing a liquid crystal display according to claim 21, further comprising:

rubbing an alignment film formed on said first electrode or each of said first electrode and said pixel electrodes, in correspondence with a lengthwise direction of said first conductive column or each of said first conductive column and said second conductive column along a surface of said first substrate and said second substrate.

23. (previously presented): The method for manufacturing a liquid crystal display according to claim 18,

wherein said ground column is made of a photosensitive resin.

Claims 24 and 25 (canceled).

26. (previously presented): The liquid crystal display according to claim 17, wherein a circumference of said first conductive column from a cross section perpendicular to a surface of said first substrate has an arched shape.

27. (previously presented): The method of manufacturing a liquid crystal display panel according to claim 18, further comprising forming a circumference of said first conductive column, from a cross section perpendicular to a surface of said first substrate, to have an arched shape.